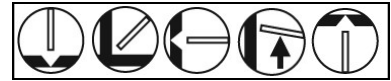


# FabCO<sup>®</sup> 308LT1



AWS/ASME A5.22: E308LT1-1/4

## WELDING POSITIONS:



### FEATURES:

- All position
- Self-detaching slag
- Spray-like arc transfer
- High moisture resistance

### BENEFITS:

- Welds extremely well in vertical (up) position, as well as flat, horizontal & overhead
- Excellent welder appeal
- Low spatter and less clean-up
- Good weld soundness and extended shelf-life

### APPLICATIONS:

- Used for joining common austenitic stainless steel such as Types 301, 302, 304, 304L, 321, CF-3 and CF-8.

**SLAG SYSTEM OR WIRE TYPE:** Fast-freezing, flux-cored wire

**SHIELDING GAS:** 100% Carbon Dioxide (CO<sub>2</sub>), 75% Argon (Ar)/25% Carbon Dioxide (CO<sub>2</sub>), 35-50 cfh (17-24 l/min)

**TYPE OF CURRENT:** Direct Current Electrode Positive (DCEP)

**STANDARD DIAMETERS:** 0.045" (1.2 mm), 1/16" (1.6 mm)

**RE-DRYING:** Not recommended

**STORAGE:** Product should be stored in a dry, enclosed environment and in its original intact packaging

### TYPICAL WELD METAL CHEMISTRY\* (Chem Pad):

Weld Metal Analysis (%)	100% CO <sub>2</sub>	75% Ar/25% CO <sub>2</sub>	AWS Spec
Carbon (C)	0.024	0.021	0.04
Manganese (Mn)	1.42	1.77	0.5-2.5
Silicon (Si)	0.623	0.649	1.0
Phosphorus (P)	0.017	0.019	0.040
Sulphur (S)	0.004	0.002	0.030
Nickel (Ni)	9.81	10.13	9.0-11.0
Chromium (Cr)	19.43	19.56	18.0-21.0

**Note:** AWS specification single values are maximums.

### TYPICAL MECHANICAL PROPERTIES\* (As Welded):

Mechanical Tests	100% CO <sub>2</sub>	75% Ar/25% CO <sub>2</sub>	AWS Spec
Tensile Strength	79,000 psi (545 MPa)	84,000 psi (579 MPa)	75,000 psi (520 MPa) Minimum
Yield Strength	59,000 psi (407 MPa)	57,300 psi (395 MPa)	Not required
Elongation % in 2" (50 mm)	44%	35%	30% Minimum
Delong Ferrite Number	10	10	Not required

\*The information contained or otherwise referenced herein is presented only as "typical" without guarantee or warranty, and Hobart Brothers Company expressly disclaims any liability incurred from any reliance thereon. Typical data are those obtained when welded and tested in accordance with the AWS A5.22 specification. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by Hobart Brothers Company.

# FabCO® 308LT1

Diameter		Weld Position	Amps	Volts	Wire-Feed Speed		Deposition Rate		Contact Tip to Work Distance	
Inches	(mm)				in/min	(m/min)	lbs/hr	(kg/hr)	Inches	(mm)
0.045	(1.2)	All Position	140	24	210	(5.3)	5.0	(2.3)	5/8	(16)
0.045	(1.2)	All Position	160	25	275	(7.0)	6.0	(2.7)	5/8	(16)
0.045	(1.2)	Flat & Horizontal	200	29	380	(9.7)	8.0	(3.6)	5/8	(16)
0.045	(1.2)	Flat & Horizontal	300	33	680	(17.3)	15.0	(6.8)	5/8	(16)
1/16	(1.6)	Flat & Horizontal	200	28	155	(3.9)	6.5	(2.9)	3/4	(19)
1/16	(1.6)	Flat & Horizontal	240	29	230	(5.8)	8.5	(3.9)	3/4	(19)
1/16	(1.6)	Flat & Horizontal	280	33	290	(7.4)	11.0	(5.0)	3/4	(19)
1/16	(1.6)	Flat & Horizontal	350	35	420	(10.7)	16.0	(7.3)	3/4	(19)

- **Maintaining a proper welding procedure - including pre-heat and interpass temperatures - may be critical depending on the type and thickness of steel being welded.**
- The above information was determined by welding using 100% CO<sub>2</sub> shielding gas with a flow rate between 35-50 cfh (17-24 l/min). When welding using 75% Argon (Ar)/25% Carbon Dioxide (CO<sub>2</sub>) shielding gas, decrease voltage by 1-2 volts.
- **All positions include:** Flat, Horizontal, Vertical Up, and Overhead.

**STANDARD DIAMETERS AND PACKAGES:** For a complete list of diameters and packaging, please contact Hobart Brothers at (800) 424-1543 or (937) 332-5188 for International Customer Service.

Diameter		27.5-lb. (12.5kg) Spool
Inches	(mm)	
0.045	(1.2)	S689112-078
1/16	(1.6)	S689119-078

#### CONFORMANCES AND APPROVALS:

- **AWS A5.22**, E308LT1-1/4
- **ASME SFA 5.22**, E308LT1-1/4
- **ABS**, 100% CO<sub>2</sub>, E308LT1-1 (0.045", 0.062" diameters, all position)
- **CWB**, Ar + 20% CO<sub>2</sub> to 100% CO<sub>2</sub>, E308LT1-1, E308LT1-4, (1.2 mm electrode diameter)
- **DNV**, VL 308L (1.2 mm - 1.6 mm) Flat, Vertical-Up and Overhead
- **Lloyd's Register**, DXVuO, BF, 304L S

**TECHNICAL QUESTIONS?** For technical support of Hobart Filler Metals products, contact the Applications Engineering department by phone toll-free at 1-800-532-2618 or by e-mail at [Applications.Engineering@hobartbrothers.com](mailto:Applications.Engineering@hobartbrothers.com)

#### CAUTION:

Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standard Z49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36th St., Miami, FL 33166 (can also be downloaded online at [www.aws.org](http://www.aws.org)); OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210

Safety Data Sheets on any Hobart Brothers Company product may be obtained from Hobart Customer Service or at [www.hobartbrothers.com](http://www.hobartbrothers.com).

Because Hobart Brothers Company is constantly improving products, Hobart reserves the right to change design and/or specifications without notice.

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**Revision Date: 161004** (Replaces 160923)

